

ATTORNEY DOCKET NO.: EXT-023

APPLICANT(S): Stanley N. Lapidus et al.

SERIAL NO.: 09/448,042

FILING DATE: Nov. 23, 1999

GROUP: 1643

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT				SUB	FILING DATE IF APPROPRIATE
inii.		NUMBER	DATE	NAME	CLASS	CLASS	AFFROFRIATE
SI	A1	4,101,279	7/18/78	Aslam			4/6/77
	A2	4,309,782	1/12/82	Paulin			9/11/80
	A3	4,333,734	6/8/82	Fleisher			10/8/80
	A4	4,445,235	5/1/84	Slover et al.			9/13/82
	A5	4,535,058	8/13/85	Weinberg et al.			10/1/82
	A6	4,683,195	7/28/87	Mullis et al.			2/7/86
	A7	4,705,050	11/10/87	Markham, Charles W.			10/2/85
	A8	4,735,905	4/5/88	Parker			8/15/86
	A9	4,786,718	11/22/88	Weinberg et al.			8/8/85
	A10	4,857,300	8/15/89	Maksem			7/27/87
	A11	4,871,838	10/3/89	Bos et al.			7/23/85
	A12	4,981,783	1/1/91	Augenlicht			4/16/86
	A13	4,982,615	1/8/91	Sultan et al.			4/18/89
	A14	5,087,617	2/11/92	Smith	:		2/15/89
	A15	5,126,239	6/30/92	Livak et al.			3/14/90
	A16	5,137,806	8/11/92	LeMaistre et al.			12/11/89
	A17	5,149,506	9/22/92	Skiba et al.			8/9/91
	A18	5,196,167	3/23/93	Guadagno et al.			5/9/91
	A19	5,248,671	9/28/93	Smith			12/9/91
	A20	5,272,057	12/21/93	Smulson et al.			12/21/93
	A21	5,302,509	4/12/94	Cheeseman			2/27/91
	A22	5,330,892	7/19/94	Vogelstein et al.			3/13/91
	A23	5,331,973	7/26/94	Fiedler et al.			3/15/93
1	A24	5,348,855	9/20/94	Dattagupta et al.			10/4/91
11/	A25	5,352,775	10/4/94	Albertsen et al.			8/8/91

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INIT.		NUMBER	DATE	NAME	CLASS	CLASS	APPROPRIATE
SA	A26	5,362,623	11/8/94	Vogelstein et al.			3/31/92
	A27	5,369,004	11/29/94	Polymeropoulos et al.			7/31/92
	A28	5,378,602	1/3/95	Polymeropoulos et al.			11/27/91
	A29	5,380,645	1/10/95	Vogelstein			3/16/89
	A30	5,380,647	1/10/95	Bahar		_	4/26/93
	A31	5,382,510	1/17/95	Levine et al.			7/10/92
	A32	5,409,586	4/25/95	Kamahori et al.			8/24/93
	A33	5,458,761	10/17/95	Kamahori et al.			1/27/95
	A34	5,463,782	11/7/95	Carlson et al.			11/21/94
	A35	5,466,576	11/14/95	Schulz et al.			7/2/93
	A36	5,468,610	11/21/95	Polymeropoulos et al.			6/9/93
	A37	5,468,613	11/21/95	Erlich et al.			3/9/90
	A38	5,489,508	2/6/96	West et al.			3/24/93
	A39	5,492,808	2/20/96	de la Chapelle et al.			5/5/93
	A40	5,496,470	3/5/96	Lenhart			5/27/94
	A41	5,508,164	4/16/96	Kausch et al.			10/29/93
	A42	5,512,441	4/30/96	Ronal			11/15/94
	A43	5,514,547	5/7/96	Balazs et al.			2/4/94
	A44	5,527,676	6/18/96	Vogelstein et al.			3/22/93
	A45	5,532,108	7/2/96	Vogelstein			4/14/94
	A46	5,580,729	12/3/96	Vogelstein			6/24/94
	A47	5,589,335	12/31/96	Kearney et al.			8/11/94
	A48	5,670,325	9/23/97	Lapidus et al.			8/14/96
V	A49	5,709,998	1/20/98	Kinzler et al.			12/15/93

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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
5/1	A50	5,741,650	4/21/98	Lapidus et al.			4/21/98
	A51	5,759,777	6/2/98	Kearney et al.			6/2/98
	A52	5,830,665	11/3/98	Shuber et al.			3/3/97
Q/	A53	5,928,870	7/27/99	Lapidus et al.			6/16/97

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EXAM.		DOCUMENT	Γ	COUNTRY		SUB	FILING	A DOTTO A COT	ENC! IC!
INIT.		NUMBER	DATE	CODE	CLASS	CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
SM	Bl	0 284 362 A2	9/28/88	EP			3/23/88		
	B2	0 337 498 A2	10/18/89	EP			4/17/89		
	В3	WO 90/09455	8/23/90	PCT			2/13/90		
	B4	0 390 323 A2	10/3/90	EP			2/20/90		
	В5	0 390 323 A3	10/3/90	EP			2/20/90		
	В6	0 407 789 A1	1/16/91	EP			6/22/90		
	В7	0 407 789 B1	1/16/91	EP			6/22/90	7 311	
	В8	WO 92/13103	8/6/92	PCT			1/16/92		
	В9	WO 92/16657	10/1/92	PCT			3/12/92		
	B10	WO 93/18186	9/16/93	PCT			3/1/93		
	B11	WO 93/20233	10/14/93	PCT			3/22/93		
	B12	WO 94/00603	1/6/94	PCT			6/28/93		
	B13	WO 94/09161	4/28/94	PCT			10/20/93		
	B14	WO 94/10575	5/11/94	PCT			10/29/93		
	B15	WO 94/11383	5/26/94	PCT			11/8/93	***	
	B16	0 608 004 A2	7/27/94	ЕР			8/11/87		
	B17	A-11325/95	10/5/94	AU					
	B18	0 259 031 B1	11/9/94	EP			8/11/87		
	B19	WO 95/07361	3/16/95	PCT			9/9/94		
	B20	WO 95/09928	4/13/95	PCT			9/26/94		
	B21	WO 95/09929	4/13/95	PCT			9/26/94		Yes
	B22	WO 95/13397	5/18/95	PCT			11/10/94		
	B23	WO 95/15400	6/8/95	PCT			12/5/94		
11/	B24	WP 95/16792	6/22/95	PCT			12/13/94		ИО
V	B25	WO 95/18818	7/13/95	PCT			1/3/95		
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EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
SA	B26	WO 95/19448	7/20/95	PCT			1/13/95		
7	B27	0 664 339 A1	7/26/95	EP			7/7/94		Yes
\overline{I}	B28	WO 95/25813	9/28/95	PCT			3/17/95		
	B29	WO 95/31728	11/23/95	PCT			5/15/95		
	B30	WO 96/01907	1/25/96	PCT			7/10/95		
	B31	WO 96/06951	3/7/96	PCT			8/31/95		
	B32	WO 96/08514	3/21/96	PCT			9/12/95		
	B33	WO 96/12821	5/2/96	PCT			12/19/95		
	B34	WO 96/13611	5/9/96	PCT			10/27/95		
	B35	WO 97/09449	3/13/97	PCT			9/2/96		
	B36	WO 97/09600	3/13/97	PCT			9/5/96		Yes
	В37	WO 97/23651	7/3/97	PCT			12/20/96		Yes
	B38	WO97/25442	7/17/97	PCT			1/9/97	· · · · · · · · · · · · · · · · · · ·	Yes
1	B39	WO 98/38338	9/3/98	PCT	100		2/27/98		Yes
77	B40	WO 98/58081	12/23/98	PCT			6/4/98		Yes

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		OTHER ART, JOURNAL ARTICLES, ETC.					
EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)					
Sh	CI	Aaltonen et al. (1994) "Replication Errors in Benign and Malignant Tumors from Hereditary Nonpolyposis Colorectal Cancer Patients" Cancer Research 54: 1645-1648					
	C2	Aaltonen et al. (1998) "Incidence of Hereditary Nonpolyposis Colorectal Cancer and the Feasibility of Molecular Screening for the Disease" The New England Journal of Medicine 338: 1481-1487					
	C3	Ausubel et al., (1995), Short Protocols in Molecular Biology, 3d ed., pp. 2-3 -2-12, 3-30 -3-33.					
	C4	Bertario et al. (1999) "Risk of Colorectal Cancer Following Colonoscopic Polypectomy" <u>Tumori</u> 85: 157-162					
	C5	Blum H.E., (1995) "Colorectal Cancer: Future Population Screening for Early Colorectal Cancer" <u>European Journal of Cancer</u> , Vol. 31A, pp. 1369-1372.					
	C6	Bos et al., (May 28, 1987) "Prevalence of ras Gene Mutations in Human Colorectal Cancers," Nature, V 327, pp. 293-297.					
	C7	Caldas et al., (July 1, 1994) "Detection of K-ras Mutations in the Stool of Patients with Pancreatic Adenocarcinoma and Pancreatic Ductal Hyperplasia" Cancer Research, Vol. 54, pp. 3568-3573.					
	C8	Capozzi et al. (1999) "Evaluation of the Replication Error Phenotype in Relation to Molecular and Clinicopathological Features in Hereditary and Early Onset Colorectal Cancer" <u>European Journal of Cancers</u> 35: 289-295					
	C9	Cave et al., (1994) "Reliability of PCR Directly from Stool Samples: Usefulness of an Internal Standard," BioTechniques, Vol. 16, No. 5, pp. 809-810.					
	C10	Chapelle (1999) "Testing Tumors for Microsatellite Instability" <u>European Journal of Human Genetics</u> 7: 407-408					
	C11	Charlesworth <i>et al.</i> , (September 15, 1994) "The Evolutionary Dynamics of Repetitive DNA in Eukaryotes," Nature, Vol. 371, pp. 215-220.					
	C12	Chen et al. (1997) "Microsatellite Instability in Sporadic-Colon-Cancer Patients With and Without Liver Metastases" International Journal of Cancer 74: 470-474					
	C13	Coll et al., (October 1989) "Evaluation of a Rapid Method of Extracting DNA from Stool Samples for Use in Hybridization Assays," <u>Journal of Clinical Microbiology</u> , Vol. 27, No. 10, pp. 2245-2248.					
	C14	Coughlin et al. (1999) "Public Health Perspectives on Testing for Colorectal Cancer Susceptibility Genes" <u>American Journal of Preventive Medicine</u> 16: 99-104					

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	EXAMINER V	DATE CONSIDERED	30	1



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		OTHER ART, JOURNAL ARTICLES, ETC. (continued)					
EXAM. OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) INIT.							
SĄ	C15	Cunningham C. and M.G. Dunlop, (1996) "Molecular Genetic Basis of Colorectal Cancer Susceptibility," British Journal of Surgery, Vol. 83, pp. 321-329.					
	C16	Deng et al., (December 20, 1996) "Loss of Heterozygosity in Normal Tissue Adjacent to Breast Carcinomas," Science, Vol. 274, pp. 2057-2059.					
	C17	Deuter et al., (1995) "A Method for Preparation of Fecal DNA Suitable for PCR," Nucleic Acids Research, Vol. 23, No. 18, pp. 3800-3801.					
	C18	Dib et al., (March 14, 1996) "A Comprehensive Genetic Map of the Human Genome Based on 5,264 Microsatellites," Nature Vol. 380, pp. 152-154.					
	C19	Duffy M.J., (1995) "Can Molecular Markers Now be Used for Early Diagnosis of Malignancy?" Clin. Chem,. Vol. 41, No.10, pp. 1410-1413. Eguchi et al., (April 15, 1996) "Mutations of the p53 Gene in the Stool of Patients with Resectable Colorectal Cancer," Cancer Supplement, Vol. 77, No. 8, pp. 1707-1710.					
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	C21	Enari et al., (January 1, 1998) "A Caspase-Activated DNase that Degrades DNA During Apoptosis, and its Inhibitor ICAD," Nature, Vol. 391, pp. 43-50.					
	C22	Fearon, E.R., (1995) "16 Molecular Abnormalities in Colon and Rectal Cancer," The Molecular Basis of Cancer, pp. 340-357.					
	C23	Grossman <i>et al.</i> (1988), "Colonoscopic Screening of persons With Suspected Risk Factors for Colon Cancer" Gastroenterology 94: 395-400					
	C24	Gyllensten U. B., Allen M., (1995) "Sequencing of In Vitro Amplified DNA," Recombinant DNA Methodology II, (Wu, ed.), pp. 565-578.					
	C25	Hasegawa et al., (1995) "Detection of K-ras Mutations in DNAs Isolated From Feces of Patients with Colorectal Tumors by Mutant-Allele-Specific Amplification (MASA)," Oncogene, Vol. 10, pp. 1441-1445.					
	C26	Hoang et al. (1997) "BAT-26, an Indicator of the Replication Error Phenotype in Colorectal Cancers and Cell Lines" Cancer Research 57: 300-303					
C27 Honchel et al., (1995) "Genomic Instability in Neoplasia," Seminars in Cell Biology, Vol. 6, pp							
C28 Hoss et al., (September 17, 1992) "Excrement Analysis by PCR" Scientific Correspondence pp							
V	C29	Iino et al. (1999) "DNA Microsatellite Instability in Hyperplastic Polyps, Serrated Adenomas, and Mixed Polyps: a Mild Mutator Pathway for Colorectal Cancer?" Journal of Clinical Pathology 52: 5-9					

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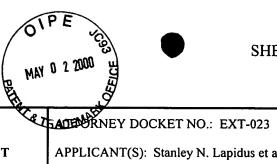
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	OTHER ART, JOURNAL ARTICLES, ETC. (continued)						
OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) NIT.							
C30	Iniesta <i>et al.</i> (1998) "Genetic Abnormalities and Microsatellite Instability in Colorect Detection and Prevention 22: 383-395	al Cancer" <u>Cancer</u>					
C31	Ishimaru et al. (1995) "Microsatellite Instability in Primary and Metastatic Colorectal Journal of Cancer 64: 153-157	Cancers" International					
C32	Jarvinen et al. (1995) "Screening Reduces Colorectal Cancer Rate in Families With F. Nonpolyposis Colorectal Cancer" <u>Gastroenterology</u> 108: 1405-1411	Iereditary					
C33	Jernvall et al. (1999) "Microsatellite Instability: Impact on Cancer Progression in Pro Colorectal Cancers" <u>European Journal of Cancer</u> 35: 197-201	ximal and Distal					
C34 Jessup J.M. and G.E. Gallick, (September/October 1992) "The Biology of Colorectal Carcinoma," <u>Current Problems in Cancer pp. 263-328</u> .							
C35 Jonsson <i>et al.</i> , (January 1995) "From Mutation Mapping to Phenotype Cloning," <u>Proc. Natl. Acad. Sci.</u> , 92 pp. 83-85.							
C36	C36 Kim et al. (1998) "Microsatellite Instability in Young Patients With Colorectal Cancer" Pathology International 48: 586-594						
C37	C37 Konishi <i>et al.</i> (1996) "Molecular Nature of Colon Tumors in Hereditary Nonpolyposis Colon Cancer, Familial Polyposis, and Sporadic Colon Cancer" <u>Gastroenterology</u> 111: 307-317						
C38	Lamberti et al. (1999) "Microsatellite Instability - a Useful Diagnostic Tool to Select for Hereditary Non-Polyposis Colorectal Cancer: A Study in Different Groups of Patie Cancer" Gut 44: 839-843						
C39	Lengauer et al., (December 17, 1998) "Genetic Instabilities in Human Cancers," Natu 649.	re, Vol. 396, pp. 643-					
C40 Leong <i>et al.</i> , (1993) "Detection of MYCN Gene Amplification and Deletions of Chromosome 1p in Neuroblastoma by In Situ Hybridization Using Routine Histologic Sections," <u>Laboratory Investigation</u> Vol. 69, No. 1, pp. 43-50.							
C41 Lin et al. (1998) "Colorectal and Extracolonic Cancer Variations in MLH1/MSH2 Hereditary Nonpolyposi Colorectal Cancer Kindreds and the General Population" <u>Diseases of the Colon & Rectum</u> 41: 428-433							
C42	Litia et al., (1992) "Simultaneous Detection of Two Cystic Fibrosis Alleles Using Dua Resolved Fluorometry," Molecular and Cellular Probes, Vol. 6, pp. 505-512.	al-Label Time-					
C43	Lleonart et al. (1998) "Microsatellite Instability and p53 Mutations in Sporadic Right Carcinoma" American Cancer Society 83: 889-895	and Left Colon					
	C31 C32 C33 C34 C35 C36 C37 C38 C39 C40 C41	C30 Iniesta et al. (1998) "Genetic Abnormalities and Microsatellite Instability in Colorect Detection and Prevention 22: 383-395 C31 Ishimaru et al. (1995) "Microsatellite Instability in Primary and Metastatic Colorectal Journal of Cancer 64: 153-157 C32 Jarvinen et al. (1995) "Screening Reduces Colorectal Cancer Rate in Families With F Nonpolyposis Colorectal Cancer" Gastroenterology 108: 1405-1411 C33 Jernvall et al. (1999) "Microsatellite Instability: Impact on Cancer Progression in Pro Colorectal Cancers" European Journal of Cancer 35: 197-201 C34 Jessup J.M. and G.E. Gallick, (September/October 1992) "The Biology of Colorectal Problems in Cancer pp. 263-328. C35 Jonsson et al., (January 1995) "From Mutation Mapping to Phenotype Cloning," Proc 92 pp. 83-85. C36 Kim et al. (1998) "Microsatellite Instability in Young Patients With Colorectal Cancer International 48: 586-594 C37 Konishi et al. (1996) "Molecular Nature of Colon Tumors in Hereditary Nonpolyposis Familial Polyposis, and Sporadic Colon Cancer" Gastroenterology 111: 307-317 C38 Lamberti et al. (1999) "Microsatellite Instability - a Useful Diagnostic Tool to Select for Hereditary Non-Polyposis Colorectal Cancer: A Study in Different Groups of Pati Cancer" Gut 44: 839-843 C39 Lengauer et al., (December 17, 1998) "Genetic Instabilities in Human Cancers," Natu 649. C40 Leong et al., (1993) "Detection of MYCN Gene Amplification and Deletions of Chron Neuroblastoma by In Situ Hybridization Using Routine Histologic Sections," Laborat Vol. 69, No. 1, pp. 43-50. C41 Lin et al. (1998) "Colorectal and Extracolonic Cancer Variations in MLH1/MSH2 He Colorectal Cancer Kindreds and the General Population" Diseases of the Colon & Rec C42 Litia et al., (1992) "Simultaneous Detection of Two Cystic Fibrosis Alleles Using Dur Resolved Fluorometry," Molecular and Cellular Probes, Vol. 6, pp. 505-512.					

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EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)				
Sj	C44	Loktionov A. and I. K. O'Neill, (1995) "Early Detection of Cancer-Associated Gene Alterations in DNA Isolated from Rat Feces During Intestinal Tumor Induction with 1,2-Dimethylhydrazine," <u>International Journal of Oncology</u> , Vol. 6, pp. 437-445.				
	C45	Loktionov et al., (February, 1998) "Quantitation of DNA from Exfoliated Colonocytes Isolated from Human Stool Surface as a Novel Noninvasive Screening Test for Colorectal Cancer," Clinical Cancer Research, Vol. 4, pp. 337-341.				
	C46	Mao L. et al., (February 2, 1996) "Molecular Detection of Primary Bladder Cancer by Microsatellite Analysis," Science, Vol. 271, pp. 659-662.				
	C47	Myers, R.M., (February 12, 1993) "The Pluses of Subtraction," Science, Vol. 259, pp. 942-943.				
	C48	Naber S. P., (December 1, 1994) "Molecular Pathology Detection of Neoplasia," New England Journal of Medicine, Vol. 331, No. 22, pp. 1508-1510.				
	C49	Nollau et al., (May 1996) "Isolation of DNA from Stool and Bodily Fluids for PCR Amplication," BioTechniques, Vol. 20, No. 5, pp. 784-788.				
	C50	Nollau et al., (1996) "Detection of K-ras Mutations in Stools of Patients with Colorectal Cancer by Mutant- Enriched PCR," Int. J. Cancer, Vol. 66 pp. 332-336.				
	C51	Orlow I., et al., (October 18, 1995) "Deletion of the p16 and p15 Genes in Human Bladder Tumors Journal of the National Cancer Institute,," Vol. 87, No. 20, pp. 1524-1529.				
	C52	Park et al. (1999) "Gene-Environment Interaction in Hereditary Nonpolyposis Colorectal Cancer with Implications for Diagnosis and Genetic Testing" <u>International Journal of Cancer</u> 82: 516-519				
	C53	Peltomaki et al. (1997) "Mutations Predisposing to Hereditary Nonpolyposis Colorectal Cancer: Database and Results of a Collaborative Study" Gastroenterology 113: 1146-1158				
	C54	Pharmacia, (1998) BioDirectory, pp. 104-109.				
	C55	Pharmacia, (1991/1992) Molecular and Cell Biology Catalogue, pp. 8.3-8.6.				
	C56	Piao et al., (September 1997) "Relationship between Loss of Heterozygosity of Tumor Suppressor Genes and Histologic Differentiation in Hepatocellular Carcinoma," <u>Cancer</u> , Vol. 80, No. 5, pp. 865-872.				

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C57	OTHER ART, JOURNAL ARTICLES, ETC. (continued) OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) Ponz de Leon et al. (1998) "Frequency and Type of Colorectal Tumors in Asymptomatic High -Risk Individuals in Families with Hereditary Nonpolyposis Colorectal Cancer" Cancer Epidemiology, Biomarkers & Prevention 7: 639-641 Ponz de Leon et al. (1999) "Hereditary Colorectal Cancer in the General Population: From Cancer						
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	Registration to Molecular Diagnosis" Gut 45: 32-38						
C59	Pyatt et al. (1999) "Polymorphic Variation at the BAT-25 and BAT-26 Loci in Individuals of African Origin" American Journal of Pathology 155: 349-353 Raff, M., (November 12, 1998) "Cell Suicide for Beginners," Nature, Vol. 396, pp. 119-122.						
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INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: EXT-023

APPLICANT(S): Stanley N. Lapidus et al.

SERIAL NO.: 09/448,042

FILING DATE: Nov 23 1999

		FILING DATE: Nov. 23, 1999 GROUP: 1643							
		OTHER ART, JOURNAL ARTICLES, ETC. (continued)							
EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)							
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EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)			
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